

EEDA



**EXPLORE ENERGY
DIGITAL ACADEMY**



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A WORD FROM**THE EDITOR**

EEDA reaffirms its commitment to empowering learners and educators with forward-thinking tools and knowledge to advance energy education.

EEDA integrates industry trends with academic excellence, offering comprehensive resources to bridge theory and practice in the energy sector. By addressing renewable energy technologies, policy, and efficiency strategies, the platform equips learners with the knowledge to excel in this transformative era.

Committed to approach a dynamic learning community, EEDA inspires future leaders to confront pressing energy challenges with innovative solutions. This month, we reaffirm our dedication to advancing energy education, preparing professionals to navigate the complexities of a sustainable future.

Join us this month as we continue to lead the way in transforming energy education.

Behind the scenes of the EEDA Newsletter: Meet our Newsletter curator

The EEDA Newsletter is more than just a collection of updates—it is a vital platform for sharing knowledge, celebrating achievements, and creating collaboration within the EEDA community. With each edition, we keep readers informed and inspired by highlighting the work and progress made by its members. Behind the success of the newsletter is a dedicated team ensuring its quality and relevance, with key contributions from individuals bringing passion and expertise to its creation.

Ricardo Bianchi, a professional with a background in engineering, academia, and project management, is a teacher at Universidad San Pablo in Guatemala, and plays a role in the EEDA family. As the curator of the EEDA Newsletter, Ricardo coordinates contributions, crafts articles, and ensures the content aligns with EEDA's vision. With a passion for cultivating partnership and knowledge exchange, he works behind the scenes to produce a newsletter that informs and inspires. His work in sharing EEDA's achievements is evident in every issue, making the newsletter an essential tool for connecting the EEDA community.

Ricardo's commitment to the newsletter reflects his belief in communication's power to connect and inspire. By spotlighting the accomplishments and aspirations of its members, the newsletter continues to strengthen the bonds within the community and advance the goals of the EEDA family.

IC2ESE 2024

A Transformative Step Towards a Greener Future

The International Conference on Circular Economy and Sustainable Ecosystems (IC2ESE 2024), jointly organized by the German Academic Exchange Service (DAAD) and the MSc in Energy for Circular Economy Programme of The Open University of Sri Lanka, was successfully held on the 21st and 22nd of November 2024. This prestigious event brought together leading academics, industry experts, and policymakers to explore innovative pathways for green recovery and sustainable development.



The event began with inspiring speeches by Dr. Chamila Dias, Co-Chair of the conference, and Snr. Prof. P.M.C. Thilakarathne, Vice Chancellor of The Open University of Sri Lanka, emphasizing the relevance of circular economy principles in addressing environmental challenges.

Prof. Torsten Fransson, Conference Chair and Professor Emeritus at KTH, Sweden, highlighted the role of innovation, collaboration, and platforms like EEDA in empowering future leaders in sustainable energy. Keynote sessions covered groundbreaking topics, from green technologies and sustainable engineering to advancements in renewable energy and circular living.

Afternoon parallel sessions showcased researchers' contributions to renewable energy integration, sustainable business practices, and digital transformation.

On the second day featured a practical workshop and a field visit to Eco Spindles (Private) Limited, a company specializing in recycling PET waste into high-quality monofilaments and yarns. This visit showcased the principles of the circular economy in action, offering participants insights into innovative recycling processes, and participants gained practical insights into advanced recycling technologies and the company's innovative approaches to sustainability.

Looking Ahead: IC2ESE 2025

We are excited to announce that the next edition of the conference will be held during the same period next year. We invite academics, researchers, and industry professionals to prepare their papers and join us for IC2ESE 2025, as we continue to unlock the potential for a greener, more sustainable future.

For more details, please visit the conference website at:

www.eusl.edu.lk/ic2ese

Bridging Knowledge and Action: A Success Story In Circular Economy



Pursuing a Master of Energy in Circular Economy has been a transformative journey, equipping me with technical expertise and an industrial perspective to address global energy challenges. This advanced education has deepened my understanding of integrating energy management within a circular economy framework, fueling my passion for sustainable practices.

With these skills, I am committed to contributing to Sri Lanka's progress toward the United Nations Sustainable Development Goals. By applying concepts of energy efficiency and circular economy, I aim to drive both economic growth and environmental sustainability, making a meaningful impact locally and globally.

Dinusha Gunawardana

EnMs ISO50001 Consultant (UNIDO), Visiting Lecturer, AM(SLEMA), AM(GBCSL)

Engineering Coordinator-Fonterra Brands Lanka (pvt) Ltd. (MECE-24/25 Registration number:324638246)

Leading The Future Of Sustainable Manufacturing: A Journey From The United Kingdom In Energy For Circular Economy

Pursuing a Master of Energy in Circular Economy has been pivotal in advancing my career as a control systems engineer. With technology evolving rapidly, traditional linear manufacturing is becoming outdated. Industries must embrace circular economy principles to address growing energy and material demands, making this transition vital for the future of manufacturing.

This program has equipped me with the knowledge and skills to lead in sustainable and energy-efficient production. For anyone passionate about energy management and the future of manufacturing, I highly recommend this master's program as a foundation for success.



Ranga Kulathunga

Control Systems Engineer, iCOMAT Ltd. United Kingdom

MSc(Energy Management), MSc(Electronics & Automation), BTech(Eng)(Hons)

Reg No:124639896 (MSc in Energy for Circular Economy -24/25 Batch)

EEDA ILO HINT

EEDA follows the European Qualification Framework 2017 of Knowledge, Skills and Responsibility & Autonomy (K/S/RA).

This EQF-2017 gives clear criteria to what a learner shall be able to do for each of the ILO-levels selected.

The spread-sheet can, via pull-down menus, help educators to "calibrate" their own Intended Learning Outcomes with the EQF-2017 descriptors:

EEDA_ILO and EEDA-QF Factors

By selecting a certain level for each one of the K/S/RA descriptors the educator will immediately see if the ILOs written do fully comply with the EQF-2017 levels, or if modifications perhaps have to be performed.

Level/#	EQF level description [intended]	Corresponding RBTL (Created by Valentina Zaccaria; 2023)
	6: Academic Level: Bachelor	
	Knowledge, Skills, Responsibility & Autonomy ILO Description	
	Knowledge ILO Description	
Module ELH =	4: Factual and theoretical knowledge in broad contexts within a field of work or study	K4 corresponds to RBTL1: Remember (basic)
5	At the end of the module the learner shall be:	
K-1	Able to identify the progression of learning units towards individual learning journeys	
K-2	YYY	
	Skills ILO Description	
	S5: A comprehensive range of cognitive and practical skills required to develop creative solutions to abstract problems	S5 corresponds to RBTL 1-2: Remember (advanced); Understand: [Repetitive skills for problems that require an understanding of boundaries and limitations]
	At the end of the module the learner shall be:	
S-1	Able to calculate the K, S and RA levels for learning modules, lessons and journeys	
S-2	YYY	
	Responsibility & Autonomy ILO Description	
	RA6: Manage complex technical or professional activities or projects, taking responsibility for decision-making in unpredictable work or study contexts. Take responsibility for managing professional development of individuals and groups	RA6 corresponds to RBTL 3-4: Apply; Analyze (basic): [Apply acquired competencies such as decision-making and strategic planning to succeed in different types of work or study environments]
	At the end of the module the learner shall be:	
RA-1	Capable of designing a learning journey from existing material in the EEDA repository.	
RA-2	YYY	

By selecting a certain level for each one of the K/S/RA descriptors the educator will immediately see if the ILOs written do fully comply with the EQF-2017 levels, or if modifications perhaps have to be performed. On the "module level" it can be safely assumed that is sufficient with one ILO per K/S/RA.

Open New Window For The Modules

When adding modules as LTI (not SCORM), you can choose for that module to open in "New Window". This ensures the design of the module is seen as intended.

**EEDA
OpenedX
Hint:**

EEDA Learnify Hint:

Screen-reader Function

When you add a picture or a graph, make sure to add a description for it (in the field "Description" which appears) - this enables learners using screen-readers to access the information:

Topic image

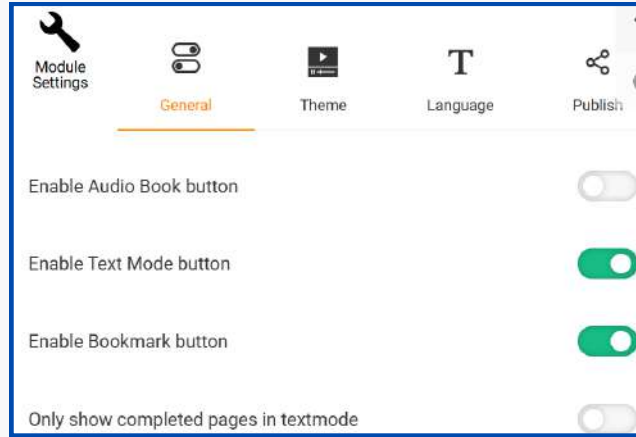


edited-image-1588852857066.png

Description...

EEDA Learnify Material Off-line Reading

In some cases it might be useful for learners to read a module "off-line". To arrange this use the "Majestic" theme and enable the "Text mode button":



This will allow learners to print all the written content of the module as a PDF by clicking first on the "Text" button and then on the "Print" button:



and



EEDA SMCTS Hint

EEDA works over university and country barriers

To this end, an informal EEDA "Stackable Master Credit Transfer System" (SMCTS) has been established to aid in international educational alignment.

While this system does not hold formal academic value in any country, it provides a practical tool for educators to compare the length of courses established under different credit systems with those used "at home." This approach fosters a better understanding of variations in educational structures across nations.

To ensure both educators and learners are aware of these differences, it is recommended that the following text be included in the modules under "Activity 1: Study/Certificate Level":

-> The below document compares credit systems in different countries:
EEDA Stackable Master Credit Transfer System: [Table](#)